

A vizuális és motoros forgatás kérgi folyamatai és lokalizációja: az elektrofiziológiai és képalkotási eljárások eredményei

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Abstract: As a result of the improvement of psychophysiological methods, the research of mental rotation has become very popular in the last decade again. The one cell- and cellpopulation registrations, the data of event-related potentials (ERPs), lateralized readiness potentials (LRPs) and the neuroimaging methods serve with new level and richer explanations about the phenomenon of mental rotation, than behavioral data. This study focuses on the delimitable but complementary character of visual and motor brain activity taking place during mental rotation processes. The data indicate that the different rotation strategies presume the operation of different cortical structures and that they interpret the close relation between visual and motor imagery mostly as the evidence of analogue transformation hypothesis and mental image.

Keywords: EEG, fMRI, visual and motor imagery, mental rotation, analogue hypothesis